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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/476,443	12/30/1999	RAJEEV K. NALAWADI	042390.P6349	7862
75	590 06/16/2003			
BLAKELY S	OKOLOFF TAYLOR &	EXAM	EXAMINER	

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EXAMINER					
VO, TIM T					
ART UNIT	PAPER NUMBĖR				
2189 DATE MAILED: 06/16/2003	10				

Please find below and/or attached an Office communication concerning this application or proceeding.



		/il				
	Application No.	Applicant(s)				
	09/476,443	NALAWADI, RAJEEV K.				
Office Action Summary	Examiner	Art Unit				
	Tim T. Vo	2189				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with t	he correspondenc address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply by within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS be, cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication. DONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 19	<u>May 2003</u> .					
2a) ☐ This action is FINAL . 2b) ☑ Th	nis action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-9,11-13 and 15</u> is/are pending in the						
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9,11-13,15</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
9) The specification is objected to by the Examine	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		Examiner.				
Applicant may not request that any objection to the						
11)☐ The proposed drawing correction filed on	_ is: a)□ approved b)□ disa	pproved by the Examiner.				
If approved, corrected drawings are required in re	ply to this Office action.					
12)☐ The oath or declaration is objected to by the Ex	kaminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority document	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the pricapplication from the International But See the attached detailed Office action for a list 	ureau (PCT Rule 17.2(a)).					
14) ☐ Acknowledgment is made of a claim for domest	tic priority under 35 U.S.C. § 1	19(e) (to a provisional application).				
 a) The translation of the foreign language present 15) Acknowledgment is made of a claim for domes 						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)				
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DETAILED ACTION

1. Claims 1-9, 11-13 and 15 are presented for examination.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,5 and 15 rejected under 35 U.S.C. 102(b) as being anticipated by Young U.S Patent No. 5,619,706. Young discloses a method and system that includes the use of two different and separate interrupt controllers which receive two different interrupt requests that transfer initializing data and, when needed, re-routes an interrupt request from one controller to other interrupt controller in order for the second interrupt controller to service the first type of interrupt (column 7, claim 1). The system also includes a memory subsystem that stores information and instructions for the processors to manage interrupts in the system (column 4, line 45).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 2-4 and 6-9, 11-14 are rejected under 35 U.S.C. 103(a) as being 3. unpatentable over Young U.S Patent No. 5,619,706 as applied to claims 1,5,15 above, in view of Tavallaei et al. U.S. Patent No. 5,987,538. Referring to claims 2, 3, 6, 7, 11 and 12 Young discloses a method and system that includes the use of two different and separate interrupt controllers which receive two different interrupt requests that transfer initializing data and, when needed, re-routes an interrupt request from one controller to other interrupt controller in order for the second interrupt controller to service the first type of interrupt but does not disclose configuring a system management interrupt (SMI) to recognize the initializing data of a first interrupt type. However, Tavallaei et al. teaches the use of programmable data entries, which provide information necessary to format an interrupt message or request (column 7, line 56). The entries are made up of vectors such as a vector field, a delivery mode field, destination field and a field for other purposes or otherwise reserved (column 8, 4th paragraph). Tavallaei also teaches the generation of interrupt messages such as a SMI (column 4, line 65). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify Young's invention to include such programmable data entries in the interrupt requests transferred to the interrupt controllers in order to include initializing data in the fields of the entry such as configuration instructions for the controllers and for the generation of SMIs.

Referring to claims 4, 8 and 13, Young further teaches a method and system that includes a first interrupt controller (circuit) which includes a programmable interrupt controller (PIC) and an advanced interrupt controller (APIC)(column 8, claim 8). It is well

known that an 82C59 controller is a programmable interrupt controller and can be used in such a system.

Referring to claim 9, Young further discloses a system comprising a plurality of processors, a memory subsystem and a bridge element (column 4, line 36). Young also states that the system may employ some or all of the components mentioned and also include different components than those illustrated (column 5,column1). Tavallaei et al. teaches a system where a peripheral component, such as a memory device, is coupled to a second-type interrupt controller (column 9, line 61). Tavallaei also teaches coupling a first-type interrupt controller to a second-type interrupt controller (column 9, line 58). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify Young's invention to include such a peripheral component, such as a memory device, coupled to the second-type interrupt controller in order to store instructions to service first-type interrupt request and also to couple a first-type interrupt controller to a second-type interrupt controller in order to communicate interrupt messages between both controllers.

Response to Arguments

- 4. Applicant's arguments filed 12/02/02 have been fully considered but they are not persuasive.
- 5. Amended claims 1-3, 5-7, 9 and 11-12 do not change scope of the claims. Therefore, the same ground of rejection applies as previous office action.

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6. Applicant acknowledges that Young teaches a method and system that services interrupt requests using two different and separate interrupt controllers which receive two different interrupt requests that transfer initializing data and, when needed, reroutes an interrupt request from a first interrupt controller to a second interrupt controller in order for the second interrupt controller to service the first type of interrupt request. Servicing the interrupts is the equivalent function of rerouting the initialization information/data since the interrupt requests of Young are initialization interrupts requests. This teaching is equivalent to the amended claims 1, 5 and 15.

7. The applicant argued that the amended claims as amended clarify that "the initializing data being sent and rerouted is initializing data for an interrupt controller". This feature is not found in the amended claims. The amended claims do not disclose the initializing data initializing for an interrupt controller. Therefore, this argument is moot.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim T. Vo whose telephone number is 703-308-5862. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 703-305-4815. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2100.

Tim T. Vo Examiner Art Unit 2189

T.V June 14, 2003